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1.	An apparatus for asynchronous file-based replication of a hierarchically-indexed data
stor	e, the apparatus comprising:

- a replication source comprising a hierarchically-indexed data store;
- a tracking module configured to track file regions that have changed since a first point-in-time image replication instance; and
- a replication module configured to communicate data contained within changed file regions in response to a second point-in-time image replication instance.
- 2. The apparatus of claim 1, further comprising a replication target configured to receive the data contained within the changed file regions from the replication source, write the data within corresponding files regions on the replication target, and initiate a point-in-time image replication operation configured to synchronize the replication target with the replication source.
- The apparatus of claim 1, wherein the replication module is further configured to communicate the data contained within the changed file regions in an order that is independent of a change order.
- The apparatus of claim 1, wherein the replication module is further configured to conduct replication operations as directed by policies related to replication.
- The apparatus of claim 1, further comprising a storage management module configured to set policies related to replication.
- The apparatus of claim 1, wherein the hierarchically-indexed data store comprises a hierarchical structure corresponding to a file system.

7.	The apparatus of claim 1, further comprising a point-in-time image replication module	
con	figured to provide point-in-time image replication services to the heirarchically-indexed	
data store.		

- 8. The apparatus of claim 1, wherein the tracking module is further configured to save information regarding the file regions that have changed since the first point-in-time image replication instance.
- 9. The apparatus of claim 1, wherein the tracking module comprises a file system driver.
- 10. The apparatus of claim 8, wherein the file system driver is an installable driver.
- 11. The apparatus of claim 1, wherein the point-in-time image replication comprises a snapshot.
- 12. An apparatus for asynchronous file-based replication of a hierarchically-indexed data store, the apparatus comprising:
  - a replication target comprising a hierarchically-indexed data store;
- an update module configured to receive data within file regions changed on a replication source during a previous point-in-time image replication interval;
- the update module further configured to write the data within corresponding files regions on the replication target; and
- the update module further configured to initiate a point-in-time image replication operation configured to synchronize the replication target with the replication source.
- 13. The apparatus of claim 12, further comprising a tracking module configured to track file regions that have changed on the replication source since a first point-in-time image

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replication instance, and a replication module configured to communicate data contained within changed file regions in response to a second point-in-time image replication instance.

14. A method for asynchronous file-based replication of a hierarchically-indexed data store. the method comprising:

storing data on a hierarchically-indexed data store;

tracking file regions that have changed since a first point-in-time image replication instance; and

communicating data contained within changed file regions in response to a second point-in-time image replication instance.

- 15. The method of claim 14, further comprising receiving data within the changed file regions from a replication source, writing the data within corresponding files regions on a replication target, and initiating a point-in-time image replication operation configured to synchronize the replication target with the replication source.
- 16. An apparatus for asynchronous file-based replication of a hierarchically-indexed data store, the apparatus comprising:

means for storing data on a hierarchically-indexed data store;

means for tracking file regions that have changed since a first point-in-time image replication instance; and

means for communicating data contained within changed file regions in response to a second point-in-time image replication instance.

17. The apparatus of claim 16, further comprising means for receiving data within the changed file regions from a replication source, means for writing the data within corresponding files regions on a replication target, and means for initiating a point-in-time ì

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image replication operation configured to synchronize the replication target with the replication source.

18. A system for asynchronous file-based replication of a hierarchically-indexed data store, the system comprising:

a replication target comprising a CPU and a first hierarchically-indexed data store; a replication source comprising a CPU and a second hierarchically-indexed data store;

a tracking module configured to track file regions that have changed on the replication source since a first point-in-time image replication instance; and

a replication module configured to communicate data within changed file regions to the replication target in response to a second point-in-time image replication instance.

19. The system of claim 18, wherein the replication target is further configured to receive the data within changed file regions from the replication source, write the data within corresponding files regions on the replication target and initiate a point-in-time image replication operation configured to synchronize the replication target with the replication source.

20. The system of claim 18, wherein the replication module is further configured to communicate data contained within the changed file regions by communicating the data in an order that is independent of a write order.

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21. A computer readable storage medium storing computer readable program code for conducting a method for asynchronous file-based replication of a hierarchically-indexed data store, the method comprising:

storing data on a hierarchically-indexed data store;

tracking file regions that have changed since a first point-in-time image replication instance;

communicating data contained within changed file regions in response to a second point-in-time image replication instance; and

synchronizing with a replication target via a standard point-in-time image replication operation.

- 22. The computer readable storage medium of claim 21, wherein the method further comprises receiving data within the changed file regions from a replication source, writing the data within corresponding files regions on a replication target, and initiating a point-intime image replication operation configured to synchronize the replication target with the replication source.
- 23. The computer readable storage medium of claim 21, wherein the method further comprises communicating data contained within the changed file regions comprises communicating the data in a order that is independent of a write order.
- 24. The computer readable storage medium of claim 21, wherein the method further comprises communicating is conducted as directed by policies related to replication.
- 25. The computer readable storage medium of claim 21, wherein the method further comprises invoking point-in-time image replication services.

1	26. The computer readable storage medium of claim 21, wherein the method further
2	comprises saving information regarding the file regions that have changed since the first
3	point-in-time image replication instance.
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5	27. The computer readable storage medium of claim 21, wherein the method further
6	comprises tracking file regions is conducted in response to write operations.
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8	28. The computer readable storage medium of claim 21, wherein the method further
9	comprises saving information regarding the storage regions that have changed since the first
10	point-in-time image replication instance.
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12	29. The computer readable storage medium of claim 21, wherein the point-in-time image
13	comprises a snapshot.
14	
15	30. A change tracking data structure for use in conducting point-in-time replication
16	operations, comprising
17	a block index configured to logically identify blocks associated with a selected
18	volume;
19	a block address configured to indicate a physical location of a block within a storage
20	device;
21	a status indicator configured to indicate whether a change has been made to a block
22	since a previously conducted point-in-time replication operation; and
23	a file index configured to identify a file associated with a selected data block.
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